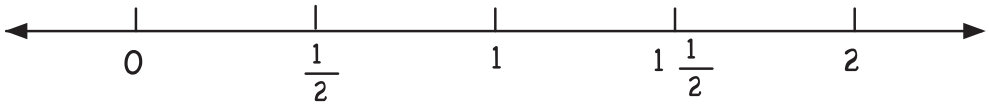
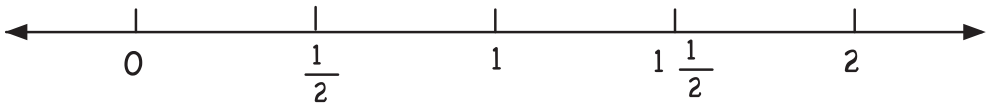
Fraction Estimation

For each problem, imagine the fractions using fraction circles. Estimate the value of each sum or difference. Put an X in the interval where you think the actual answer will be.

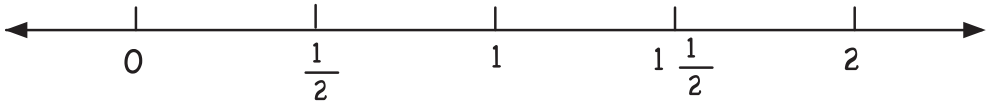
$\frac{5}{6}+\frac{11}{12}$



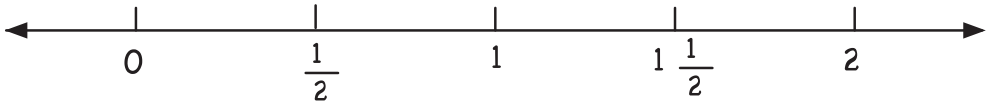
$\frac{4}{7}+\frac{6}{11}$



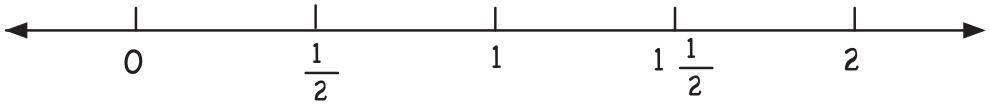
$\frac{7}{16}+\frac{5}{12}$



$\frac{1}{15}+\frac{1}{30}$



$\frac{1}{4}+\frac{1}{3}$



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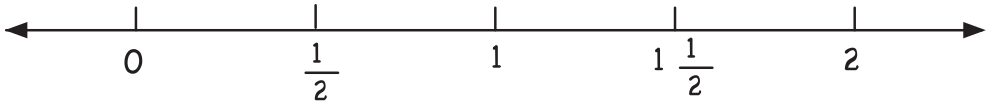
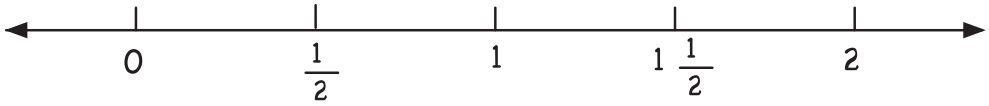
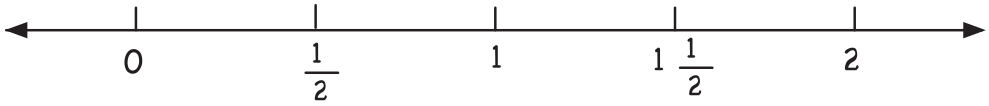
$1\frac{9}{10} - \frac{3}{4}$



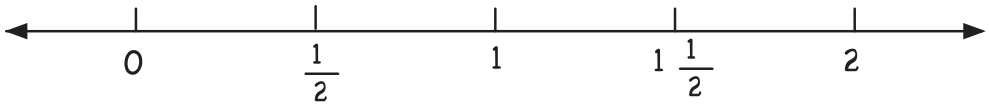
$\frac{8}{10} - \frac{1}{100}$



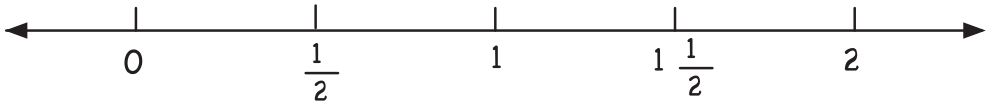
$\frac{8}{9} - \frac{7}{8}$



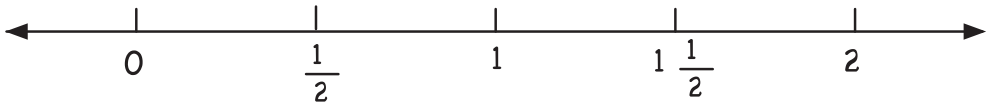
$1\frac{1}{4} - \frac{1}{10}$



$1\frac{7}{14} - \frac{9}{10}$



$\frac{10}{20} - \frac{3}{10}$



Estimation and Story Problems

1. After the party, there was $1\frac{8}{9}$ of a pizza left. Then Brenna ate an amount equal to $\frac{7}{8}$ of a whole pizza. About how much of one pizza was left?

Provide a reasonable estimate with a clear explanation of your thinking. Exact answer is not needed!

2. Joshkin ran $15\frac{3}{4}$ laps around the track. Caylee ran $14\frac{1}{5}$ laps. Approximately how many more laps did Joshkin run than Caylee?

Provide a reasonable estimate with a clear explanation of your thinking. Exact answer is not needed!

Extensions

1. Pirate Jack buried $\frac{1}{2}$ of his treasure. He gave $\frac{1}{3}$ of the remaining treasure to his trusty mate Pirate Joe. Pirate Joe received $3000 in gold. Exactly how much gold was in Pirate Jack's whole treasure? Draw a picture to show the solution.

2. Joshkin built a tower using blocks that linked together. I noticed that he had 27 blocks in $\frac{3}{7}$ of his tower. Exactly how many blocks were in this entire tower?

   Provide a clear description of your solution strategy.

3. The line below is $\frac{3}{4}$ as long as a ribbon I have. Draw a line the same length as my ribbon and another line that is $1\frac{1}{6}$ as long as my ribbon. Label the lines.

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